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Rec 8/86

# MATERIAL SAFETY DATA SHEET

## SECTION I

MANUFACTURER'S NAME Richardson-Vick's Inc. Home Care Products Division		EMERGENCY TELEPHONE NO. (901) 685-7555 or (601) 895-5594
ADDRESS (Number, Street, City, State and ZIP Code) 825 Crossover Lane, Suite 240 Building C, Memphis, TN 38117		
CHEMICAL NAME AND SYNONYMS Lubricant Mixture	TRADE NAME AND SYNONYMS Tri-Flow	
CHEMICAL FAMILY: Mixture of Petroleum Distillates, Chlorinated Solvents & Additives	FORMULA Proprietary Mixture	

## SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS		% BY WT.	TLV (Units)
1,1,1-Trichloroethane	71-55-6	25	1900 mg/m3
n-amyl Acetate	628-63-7	3	525 mg/m3
Mixture of Zinc Salt of Dialkylphosphorodithioic Acid	Confidential	1	None established
When Tri-Flow is packaged as an aerosol the following propellents are used to pressurize the container:			
Propane	74-98-6	10	
Isobutane	75-28-5	10	

## SECTION III - PHYSICAL DATA

BOILING POINT (°F)	Initial 190°F	SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	1.0
VAPOR PRESSURE (mm Hg.)	@20°C approx. 100	PERCENT, VOLATILE BY VOLUME (%)	35
VAPOR DENSITY (Air = 1)	Greater than 1	EVAPORATION RATE (Ethyl Ether = 1)	2.6
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR: Amber, opaque, liquid; mild, pleasant odor. Two-phases - liquid + solid (Teflon particles settle out — must be agitated before use.)			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): 154°F (Seta Flash Closed Cup)	FLAMMABLE LIMITS	LeI N/A	UeI N/A
EXTINGUISHING MEDIA Dry Chemical or CO <sub>2</sub>			
SPECIAL FIRE FIGHTING PROCEDURES: None other than those procedures associated with self-pressurized containers if Tri-Flow is packaged as an aerosol.			
UNUSUAL FIRE AND EXPLOSION HAZARDS: None			

## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:	Not established	Oil Mist = 5mg/m <sup>3</sup>
EFFECTS OF OVEREXPOSURE:		
Anesthetic or narcotic effects may occur due to		
1,1,1-Trichloroethane. Oral toxicity LD 50 - 22.5 ml/kg. Ocular and dermal toxicity - considered to be non-irritant. Test reports available upon request.		
EMERGENCY AND FIRST AID PROCEDURES:		
For skin contact wash with soap and water. For eye contact flush eyes for 5 minutes with water and contact physician. Contains petroleum distillates. If swallowed do not induce vomiting. Call physician immediately. Tri-Flow is listed with Poison Control Centers through "Poisondex". Call 303/629-1123 in emergency.		

## SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid): Strong oxidizers			
HAZARDOUS DECOMPOSITION PRODUCTS: When Tri-Flow is burned HCl, Cl <sub>2</sub> , CO <sub>2</sub> , and phosgene may be produced.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:	Absorb with common materials used to clean up oil;
then sweep up residue.	
WASTE DISPOSAL METHOD:	Dispose of as any other combustible lubricant which has been cleaned up with an absorptive material in accordance with effective environmental regulations.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type): None required while working in a well ventilated area.		
Care should be taken to avoid breathing of oil mist.		
VENTILATION	LOCAL EXHAUST Normal, good ventilation	SPECIAL N/A
	MECHANICAL (General) Standard	OTHER N/A
PROTECTIVE GLOVES:	N/A	EYE PROTECTION: N/A
OTHER PROTECTIVE EQUIPMENT: None		

## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:	Store in cool place. Keep away from sparks and flames.
Tri-Flow is a combustible liquid. KEEP OUT OF REACH OF CHILDREN.	
OTHER PRECAUTIONS:	Aerosol containers only:
Extremely Flammable - Contents under pressure - Do not use near heat, sparks or flames.	
Do not puncture, incinerate or store above 120°F.	